

**GTC INTERNATIONAL, INC.  
BEDFORD PARK, ILLINOIS  
PROJECT SUMMARY**

I. INTRODUCTION

GTC International, Inc. (GTC) has requested a permit to correct past noncompliance issues at its mirror manufacturing facility in Bedford Park. The result will be to decrease actual emissions of volatile organic material (VOM) at the source.

II. PROJECT DESCRIPTION

Two operations occur at the source to manufacture mirrors, the first being a glass coating process and the other screen printing. The glass coating process includes the spray application of a silver base coat and a top coat with a separate (electric) drying area after each spray application.

The silk screen printing process uses a porous screen mesh and stencil to apply ink at specific locations on the glass substrate. The stencil defines the printing image and ink is forced onto the substrate by passing a blade over the surface of the screen and stencil. Drying is performed electrically.

The three emission units within these two operations are as follows:

Emission Unit	Description	Emission Control Equipment
01	Silver Base Coat/Dryer	None
02	Top Coat Application/Dryer	None
03	Conveyorized Screen Printing Line	None

III. PROJECT EMISSIONS

The permitted VOM emissions of this plant, as established by this permit are initially 15 tons/year. Beginning in January 2005, the 12 month rolling limit is reduced by 1/12 ton/month until January 2007 when the annual limit becomes final at 12 tons/year. As a result, the plant would no longer be a major source and VOM emissions will be less than half of the major source threshold.

IV. APPLICABLE REGULATIONS

The enforcement action taken against GTC was based on the source exceeding a 25 tpy New Source Review limit in 1998 and 1999 (because they had constructed the source in 1997/1998). The permit does not require use of the Lowest Achievable Emission Rate (LAER) or acquisition of offsets (as required under Part 203 of the 35 IAC)

because both the amount and rate of VOM emissions are being very effectively minimized. The enforcement action will address these deficiencies separately.

The coating and silk screening operations must meet the requirements of 35 IAC Part 218, Subpart TT. This permit relies upon the plant's coating lines complying with the VOM standard set in 35 IAC 218.926(b)(1) which is applicable because VOM emissions of the plant exceeded 25 tons/year. The plant is currently in compliance to these requirements.

The silk screening operations, having never exceeded 2.5 tpy, will be limited to below this value and not be required to comply with the VOM content limitations established in the subpart.

V. PROPOSED PERMIT

The conditions of the proposed permit contain limitations and requirements for the coating and silk screening operations to minimize VOM emissions. The permit also establishes appropriate compliance procedures, including recordkeeping requirements and reporting requirements.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that the proposed permit meets all applicable state and federal air pollution control requirements. The Illinois EPA is therefore proposing to issue a permit for construction of the proposed project.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 164.

RPS:00030004:jar